

## Dropwindsonde Scientist Log

|               |             |                   |            |                    |       |                 |       |                 |       |
|---------------|-------------|-------------------|------------|--------------------|-------|-----------------|-------|-----------------|-------|
| <b>Storm:</b> | AL06 / EARL | <b>Flight ID:</b> | 20220903H1 | <b>Mission ID:</b> | 0506A | <b>Takeoff:</b> | 0758Z | <b>Landing:</b> | 1419Z |
|---------------|-------------|-------------------|------------|--------------------|-------|-----------------|-------|-----------------|-------|

|                                |          |                        |         |
|--------------------------------|----------|------------------------|---------|
| <b>Dropsonde Scientist(s):</b> | J. Zhang | <b>AVAPS Operator:</b> | Dykeman |
|--------------------------------|----------|------------------------|---------|

### Pre-flight

- ✓ Discuss the pattern with the Lead Project Scientist (LPS) and ensure that enough dropsondes are onboard.
- ✓ Complete the appropriate pre-flight set-up of your workstation and ASPEN (see [Dropsonde Processing Guide](#)).

### In-flight

- ✓ Ensure the Flight Director is aware of upcoming drops and whether a backup is requested in case of failure.
- ✓ Ensure the AVAPS operator has determined that the dropsonde is (or is not) transmitting a good signal.
- ✓ Prioritize processing of center drops and report MSLP and surface wind speed and direction to the Flight Director.
- ✓ Fill in the Dropwindsonde Scientist log as drops are released and processed.
- ✓ Copy completed ASPEN files (e.g., FRD, netCDF, Skew-t, WMO txt, BUFR) into the “FRD” folder on the workstation desktop for automated transmission to the ground for archival.

### Once “science is complete”...

- ✓ Make synoptic map plots in ASPEN and copy them to the “FRD” folder on the workstation desktop for automated transmission to the ground for archival.
- ✓ Ensure ASPEN files have been sent to the ground by locating and verifying all files in the “FLIGHTID” folder within the “FRD” folder on the workstation desktop.
- ✓ Archive ASPEN\_DATA and RAW\_DATA into a folder named with the FLIGHTID within the “Season Dropsonde Archive” folder on the workstation desktop, and upload the same directories into StormName/FLIGHTID/Dropsonde/ folder on Drive.
- ✓ Download this Dropwindsonde Scientist Log as “PDF” and upload completed PDF and Google Doc to the StormName/FLIGHTID/Dropsonde/ folder within the “Mission Reports” directory in the HFP Google Drive.

| Drop #   | Sonde ID  | Time UTC | Lat (°N/S) | Lon (°E/W) | Sfc Pressure (mb) | Lowest Wind Direction/Speed (deg/kt) | Lowest Wind Height (m) | AXBT SST (°C) | Eye, Eyewall, Rainband, etc. | Ob # |
|--|-----------|----------|------------|------------|-------------------|--------------------------------------|------------------------|---------------|------------------------------|------|
| 1  | 210550239 | 090111   | 17.19 N    | 60.60 W    | 1008.6            | 21512                                | 10                     |               |                              | 01   |
| Comments: IP SE                                  |           |          |            |            |                   |                                      |                        |               |                              |      |
| 2  | 202630495 | 091332   | 17.96 N    | 61.05 W    | 1009.1            | 19509                                | 10                     |               |                              | 02   |
| Comments: MP SE                                  |           |          |            |            |                   |                                      |                        |               |                              |      |
| 3  | 221220368 | 092552   | 18.64 N    | 61.26 W    | 1003.8            | 26512                                | 10                     |               |                              | 03   |
| Comments: CENTER                                 |           |          |            |            |                   |                                      |                        |               |                              |      |
| 4  | 221030241 | 093800   | 19.37 N    | 61.78 W    | 1010.4            | 08025                                | 10                     |               |                              | 05   |
| Comments: EP NW (originally MP NW shortened leg) |           |          |            |            |                   |                                      |                        |               |                              |      |
| 5  | 221210019 | 100442   | 18.66 N    | 62.27 W    | 1009.9            | 04512                                | 10                     |               |                              | 07   |
| Comments: EP W                                   |           |          |            |            |                   |                                      |                        |               |                              |      |
| 6  | 203310058 | 101656   | 18.71 N    | 61.42 W    | 1004.5            | 18018                                | 10                     |               |                              | 08   |
| Comments: 2nd center                             |           |          |            |            |                   |                                      |                        |               |                              |      |
| 7  | 203250861 | 103418   | 18.73 N    | 60.18 W    | 1010.2            | 13528                                | 10                     |               |                              | 10   |
| Comments: MD E                                   |           |          |            |            |                   |                                      |                        |               |                              |      |
| 8  | 221250020 | 105027   | 18.72 N    | 58.99 W    | 1013.1            | 11520                                | 10                     |               |                              | 11   |
| Comments: EP E                                   |           |          |            |            |                   |                                      |                        |               |                              |      |
| 9  | 221030238 | 123241   | 18.65 N    | 60.32 W    | 1011.1            | 14033                                | 10                     |               |                              | 12   |
| Comments: Top of spiral                          |           |          |            |            |                   |                                      |                        |               |                              |      |
| 10   | 221030143 | 131440   | 19.37 N    | 61.52 W    | 1011.6            | 11034                                | 10                     |               |                              | 13   |
| Comments: EP NE                                  |           |          |            |            |                   |                                      |                        |               |                              |      |

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|----------------------|-----------|----------|------------|------------|-------------------|--------------------------------------|------------------------|---------------|------------------------------|------|
| 11                   | 221220387 | 132628   | 18.87 N    | 62.09 W    | 1005.5            | 13535                                | 10                     |               |                              | 14   |
| Comments:            |           |          |            |            |                   |                                      |                        |               |                              |      |
| 12                   | 221220216 | 133826   | 18.42 N    | 62.80W     | 1010.2            | 34508                                | 10                     |               |                              | 15   |
| Comments:            |           |          |            |            |                   |                                      |                        |               |                              |      |
| 13                   | 211230720 | 135145   | 17.93N     | 63.67W     | 1010.2            | 01510                                | 10                     |               |                              | 17   |
| Comments: Last sonde |           |          |            |            |                   |                                      |                        |               |                              |      |
| 14                   |           |          |            |            |                   |                                      | 10                     |               |                              |      |
| Comments:            |           |          |            |            |                   |                                      |                        |               |                              |      |
| 15                   |           |          |            |            |                   |                                      | 10                     |               |                              |      |
| Comments:            |           |          |            |            |                   |                                      |                        |               |                              |      |
| 16                   |           |          |            |            |                   |                                      | 10                     |               |                              |      |
| Comments:            |           |          |            |            |                   |                                      |                        |               |                              |      |
| 17                   |           |          |            |            |                   |                                      | 10                     |               |                              |      |
| Comments:            |           |          |            |            |                   |                                      |                        |               |                              |      |
| 18                   |           |          |            |            |                   |                                      | 10                     |               |                              |      |
| Comments:            |           |          |            |            |                   |                                      |                        |               |                              |      |
| 19                   |           |          |            |            |                   |                                      | 10                     |               |                              |      |
| Comments:            |           |          |            |            |                   |                                      |                        |               |                              |      |
| 20                   |           |          |            |            |                   |                                      | 10                     |               |                              |      |
| Comments:            |           |          |            |            |                   |                                      |                        |               |                              |      |